

EAST SEARCH

7/31/2007

| L# | Hits | Search String | Databases |
|-----|-------|--|--|
| S16 | 3 | S6 and (highest near2 gain) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S19 | 3 | S6 and (select\$3 with (stage or phase)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S9 | 7 | S6 and (candidate near2 feature) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S18 | 17 | S6 and ((adjust\$3 or modify\$3) with model\$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S17 | 39 | S6 and (model\$3 with feature) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S12 | 3 | S6 and (rank\$3 with feature) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S11 | 4 | S6 and (rank\$3 with gain) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S2 | 76 | S1 and ("maximum entropy" near2 model\$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S20 | 1 | S6 and (gain with "upper bound") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S1 | 10467 | (language near2 model\$3) or ("natural language" near2 (processing or model)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S13 | 10 | S6 and (order\$3 with feature) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S15 | 2 | S6 and ("top-ranked" with feature) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S7 | 23 | S6 and (select\$3 near2 feature) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S4 | 76 | S3 and ("maximum entropy" near2 model\$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S14 | 2 | S6 and ("top ranked" with feature) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S3 | 10474 | (language near2 model\$3) or ("natural language" near2 (processing or model\$3)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S10 | 6 | S6 and ((comput\$3 or determin\$3) with gain) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S6 | 93 | S4 or S5 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S8 | 6 | S6 and (gain with feature) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S24 | 1 | S6 and (re-comput\$3 with gain) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S25 | 6 | S6 and ((conditional near2 probabilit\$3) with feature) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S21 | 0 | S6 and (gain with "upper limit") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S22 | 0 | S6 and (re-evaluat\$3 with gain) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S23 | 0 | S6 and (re-evaluat\$3 with gain) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S28 | 1 | S6 and ("next-ranked" with feature) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S29 | 0 | S6 and (gain with (pre-determined or pre-specified)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S26 | 1 | S6 and (gain with "uniform distribution") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S27 | 9 | S6 and ("uniform distribution") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S5 | 82 | S3 and (entropy near2 model\$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S32 | 0 | S6 and (re-us\$3 with feature with gain) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S33 | 0 | S6 and (re-us\$3 with feature with gain) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S30 | 1 | S6 and (gain with (predetermined or prespecified)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S31 | 1 | S6 and ("top-ranked" with feature with number) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S34 | 0 | S6 and (re-us\$3 with gain) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S35 | 8 | S6 and (reusing or reused) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S36 | 59 | S7 or S8 or S9 or S10 or S11 or S12 or S13 or S14 or S15 or S16 or S17 or S18 or S19 or S; | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S37 | 10474 | (language near2 model\$3) or ("natural language" near2 (processing or model\$3)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S38 | 76 | S37 and ("maximum entropy" near2 model\$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S39 | 82 | S37 and (entropy near2 model\$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S40 | 93 | S38 or S39 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S41 | 23 | S40 and (select\$3 near2 feature) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |

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| S72 | 4 | S67 and (rank\$3 with gain) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S75 | 2 | S67 and ("top ranked" with feature) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S73 | 3 | S67 and (rank\$3 with feature) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S93 | 11701 | (language near2 model\$3) or ("natural language" near2 (processing or model)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S94 | 89 | S93 and ("maximum entropy" near2 model\$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S96 | 4 | S94 and (rank\$3 with feature) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S97 | 4 | S94 and (rank\$3 with gain) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S98 | 6 | S94 and ((comput\$3 or determin\$3 or calculat\$3) with gain) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S99 | 7 | S95 or S96 or S97 or S98 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S95 | 2 | S94 and ("top-ranked" with feature) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |
| S100 | 2 | S94 and ("selective gain") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB |

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Results of search set S91:

| Document Kind | Code | Title | Issue Date | Current OR | Abstract |
|---------------|-------------|---|------------|------------|----------|
| US | 20060178869 | A1 Classification filter for processing data for creating a language model | 20060810 | 704/10 | |
| US | 20060159507 | A1 One-row keyboard | 20060720 | 400/472 | |
| US | 20060123448 | A1 Programming guide content collection and recommendation system for viewing on a portable | 20060608 | 725/51 | |
| US | 20060123000 | A1 Machine learning system for extracting structured records from web pages and other text sou | 20060608 | 707/5 | |
| US | 20060095250 | A1 Parser for natural language processing | 20060504 | 704/9 | |
| US | 20060088356 | A1 One-row keyboard and approximate typing | 20060427 | 400/472 | |
| US | 20060074670 | A1 Method and system for interactive conversational dialogue for cognitively overloaded device i | 20060406 | 704/257 | |
| US | 20060074630 | A1 Conditional maximum likelihood estimation of naive bayes probability models | 20060406 | 704/9 | |
| US | 20060020448 | A1 Method and apparatus for capitalizing text using maximum entropy | 20060126 | 704/10 | |
| US | 20060018541 | A1 Adaptation of exponential models | 20060126 | 382/181 | |
| US | 20060015320 | A1 Selection and use of nonstatistical translation components in a statistical machine translation | 20060119 | 704/2 | |
| US | 20050283363 | A1 Interactive manual, system and method for vehicles and other complex equipment | 20051222 | 704/257 | |
| US | 20050256685 | A1 Exponential priors for maximum entropy models | 20051117 | 703/2 | |
| US | 20050237227 | A1 Exponential priors for maximum entropy models | 20051117 | 702/181 | |
| US | 20050228643 | A1 Mention-synchronous entity tracking system and method for chaining mentions | 20051027 | 341/1 | |
| US | 20050171783 | A1 Discovery of parallel text portions in comparable collections of corpora and training using com | 20051013 | 704/9 | |
| US | 20050165580 | A1 Message recognition using shared language model | 20050804 | 704/276 | |
| US | 20050155209 | A1 Exponential priors for maximum entropy models | 20050728 | 702/181 | |
| US | 20050054982 | A1 Semantic language modeling and confidence measurement | 20050310 | 704/255 | |
| US | 20050021317 | A1 Adaptive and scalable method for resolving natural language ambiguities | 20050303 | 704/9 | |
| US | 20050015251 | A1 Fast feature selection method and system for maximum entropy modeling | 20050127 | 703/2 | |
| US | 20040193401 | A1 High-order entropy error functions for neural classifiers | 20050120 | 704/232 | |
| US | 20040064438 | A1 Linguistically informed statistical models of constituent structure for ordering in sentence reali | 20040930 | 704/9 | |
| US | 20030236662 | A1 Method for data and text mining and literature-based discovery | 20040401 | 707/1 | |
| US | 20030126102 | A1 Sequential conditional generalized iterative scaling | 20031225 | 704/224 | |
| US | 20030074183 | A1 Probabilistic record linkage model derived from training data | 20030703 | 706/21 | |
| | | Method and system for encoding and accessing linguistic frequency data | 20030417 | 704/1 | |

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|-------------------|---|-------------------|
| US 20030055655 A1 | Text processing system | 20030320 704/276 |
| US 20020188421 A1 | Method and apparatus for maximum entropy modeling, and method and apparatus for natural | 20021212 702/181 |
| US 20020165716 A1 | Error corrective mechanisms for consensus decoding of speech | 20021107 704/255 |
| US 20020111793 A1 | Adaptation of statistical parsers based on mathematical transform | 20020815 704/10 |
| US 20020111780 A1 | Probability model selection using information-theoretic optimization criterion | 20020815 703/2 |
| US 20020038207 A1 | Systems and methods for word prediction and speech recognition | 20020328 704/9 |
| US 20020032549 A1 | Determining and using acoustic confusability, acoustic perplexity and synthetic acoustic word | 20020314 703/2 |
| US 20010056344 A1 | COMMAND BOUNDARY IDENTIFIER FOR CONVERSATIONAL NATURAL LANGUAGE | 20011227 704/235 |
| US 20010028744 A1 | Method for processing nodes in 3D scene and apparatus thereof | 20011011 382/232 |
| US 7031910 B2 | Method and system for encoding and accessing linguistic frequency data | 20060418 704/10 |
| US 7028038 B1 | Method for generating training data for medical text abbreviation and acronym normalization | 20060411 707/100 |
| US 7010486 B2 | Speech recognition system, training arrangement and method of calculating iteration values f | 20060307 704/255 |
| US 6961685 B2 | Probability model selection using information-theoretic optimization criterion | 20051101 703/2 |
| US 6904405 B2 | Message recognition using shared language model | 20050607 704/235 |
| US 6898320 B2 | Method for processing nodes in 3D scene and apparatus thereof | 20050524 382/232 |
| US 6886010 B2 | Method for data and text mining and literature-based discovery | 20050426 707/3 |
| US 6859774 B2 | Error corrective mechanisms for consensus decoding of speech | 20050222 704/255 |
| US 6697769 B1 | Method and apparatus for fast machine training | 20040224 703/2 |
| US 6640207 B2 | Method and configuration for forming classes for a language model based on linguistic classe | 20031028 704/9 |
| US 6523019 B1 | Probabilistic record linkage model derived from training data | 20030218 706/45 |
| US 6453292 B2 | Command boundary identifier for conversational natural language | 20020917 704/235 |
| US 6415248 B1 | Method for building linguistic models from a corpus | 20020702 704/1 |
| US 6304841 B1 | Automatic construction of conditional exponential models from elementary features | 20011016 704/2 |
| US 6167377 A | Speech recognition language models | 20011226 704/240 |
| US 6107935 A | Systems and methods for access filtering employing relaxed recognition constraints | 20000822 340/5.52 |
| US 6049767 A | Method for estimation of feature gain and training starting point for maximum entropy/minimul | 20000411 704/240 |
| US 5991710 A | Statistical translation system with features based on phrases or groups of words | 19991123 704/2 |
| US 5839106 A | Large-vocabulary speech recognition using an integrated syntactic and semantic statistical la | 19981117 704/257 |
| US 5680511 A | Systems and methods for word recognition | 19971021 704/257 |
| JP 2002373163 A | METHOD AND APPARATUS FOR CREATING MAXIMUM ENTROPY MODEL AND METHO | 20021226 |
| WO 2005008365 A | High quality feature selection method for maximum entropy modeling involves selecting top-r | 20050127 |
| US 20020188421 A | Optimum entropy modeling method used for language processor in speech dialogue system, | 20021212 |

Interference checked

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| L# | Hits | Search String | Databases |
|-----|------|---|-----------|
| L1 | 5961 | (language near2 model\$3) or ("natural language" near2 (processing or model)) | US-PGPUB |
| L2 | 70 | 1 and ("maximum entropy" near2 model\$3) | US-PGPUB |
| L3 | 15 | 2 and ("log likelihood") | US-PGPUB |
| L4 | 1 | 3 and ("top-ranked") | US-PGPUB |
| L5 | 2 | 2 and ("top-ranked") | US-PGPUB |
| L6 | 19 | 2 and (select\$3 near2 feature) | US-PGPUB |
| L7 | 12 | 2 and (gain) | US-PGPUB |
| L8 | 32 | 3 or 4 or 5 or 6 or 7 | US-PGPUB |
| L9 | 3 | 8 and (gain.CLM.) | US-PGPUB |
| L10 | 1 | 8 and ("log likelihood".CLM.) | US-PGPUB |
| L11 | 1 | 8 and ("top-ranked".CLM.) | US-PGPUB |
| L13 | 21 | 8 and (select\$3.CLM.) | US-PGPUB |
| L14 | 19 | 8 and (feature.CLM.) | US-PGPUB |
| L15 | 12 | 13 and 14 | US-PGPUB |
| L16 | 13 | 9 or 10 or 11 or 15 | US-PGPUB |

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Results of search set S91:

| Document Kind | Codes | Title | Issue Date | Current OR | Abstract |
|---------------|-------------|---|------------|------------|----------|
| US | 20070100624 | A1 Unified treatment of data-sparseness and data-overfitting in maximum entropy modeling | 20070503 | 704/257 | |
| US | 20070083357 | A1 Weighted linear model | 20070412 | 704/4 | |
| US | 20070078654 | A1 Weighted linear bilingual word alignment model | 20070405 | 704/252 | |
| US | 20060282255 | A1 Collocation translation from monolingual and available bilingual corpora | 20061214 | 704/2 | |
| US | 20060224552 | A1 Systems and methods for determining user interests | 20061005 | 707/1 | |
| US | 20060123448 | A1 Programming guide content collection and recommendation system for viewing on a portable | 20060608 | 725/51 | |
| US | 20060074670 | A1 Method and system for interactive conversational dialogue for cognitively overloaded device | 20060406 | 704/257 | |
| US | 20060074630 | A1 Conditional maximum likelihood estimation of naive bayes probability models | 20060406 | 704/9 | |
| US | 20050021317 | A1 Fast feature selection method and system for maximum entropy modeling | 20050127 | 703/2 | |
| US | 20040193401 | A1 Linguistically informed statistical models of constituent structure for ordering in sentence reali | 20040930 | 704/9 | |
| US | 20030126102 | A1 Probabilistic record linkage model derived from training data | 20030703 | 706/21 | |
| US | 20020165716 | A1 Error corrective mechanisms for consensus decoding of speech | 20021107 | 704/255 | |

